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Quality Engineering Test Report

SERIES: DCW03A 3W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:	A:DCW03A-05	V1:+5V / 300mA
		V2: -5V / 300mA
	B:DCW03A-12	V1:+12V / 125mA
		V2: -12V / 125mA
	C:DCW03A-15	V1:+15V / 100mA
		V2: -15V / 100mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P: TESTING SPEC: 9~18VDC O/P: FULL LOAD	A: 6.5~18VDC	P
2	LINE REGULATION	I/P: 9~18VDC SPEC: $\pm 0.2\%$ O/P: FULL LOAD	A: V1: -0% ~ +0% V2: -0.15% ~ +0% B: V1: -0% ~ +0% V2: -0% ~ +0% C: V1: -0% ~ +0% V2: -0% ~ +0%	P
3	LOAD REGULATION	I/P: 12VDC SPEC: $\pm 0.2\%$ O/P: MIN. TO FULL LOAD	A: V1: -0% ~ +0% V2: -0.15% ~ +0% B: V1: -0.02% ~ +0.08% V2: -0.04% ~ +0.13% C: V1: -0.02% ~ +0.01% V2: -0.01% ~ +0.02%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P: 9~18VDC SPEC: NONE O/P: MIN. TO FULL LOAD	A: V1: -2.10% ~ +2.00% V2: -2.00% ~ +2.20% B: V1: -1.27% ~ +1.04% V2: -1.05% ~ +1.26% C: V1: -1.11% ~ +0.86% V2: -0.89% ~ +1.04%	P
5	RIPPLE & NOISE	I/P: 12VDC SPEC: 100mV O/P: FULL LOAD	A: V1: 23mV V2: 20mV B: V1: 13mV V2: 10mV C: V1: 15mV V2: 15mV	P
6	DC INPUT CURRENT	I/P: 12VDC SPEC: NONE O/P: FULL LOAD	A: 0.32A	P
7	OVER LOAD PROTECTION	I/P: 12VDC SPEC: NONE O/P: TESTING	A: 173% B: 225% C: 210%	P
8	O/P VOLTAGE ACCURACY	I/P: 12VDC SPEC: $\pm 2\%$ O/P: MIN. LOAD	A: V1: 0% V2: 0% B: V1: +0.48% V2: +0.78% C: V1: -0.63% V2: -0.31%	P

NEXT

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
9	SET UP TIME	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:1.54mS	P								
10	HOLD UP TIME	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:0.21mS	P								
11	EFFICIENCY	I/P: 12VDC SPEC: 74% O/P:FULL LOAD	A:78.1% B:83.2% C:80.6%	P								
12	INSULATION RESISTANCE	SPEC:I/P–O/P 500VDC/100M Ohms MIN.	A:I/P–O/P >100M Ohms	P								
13	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P– O/P: 1000VDC/ 1 min (10mA CUT-OFF)	A:NO BREAK I/P–O/P :<0.02mA	P								
14	BURN-IN TEST	I/P:12VDC O/P:FULL LOAD TA:25 °C BURN-IN DURATION : 2 hrs	A:NO BREAK B:NO BREAK C:NO BREAK	P								
15	TEMPERATURE RISE TEST T rise OF PARTS	A:I/P :12VDC AFTER 4 hrs BURN-IN O/P :FULL LOAD TA:25 °C <table><tr><td>POSITION</td><td>SAMPLE</td><td>TEMP</td><td>T rise</td></tr><tr><td>CASE</td><td>DCW03A-05</td><td>39.7°C</td><td>14.7°C</td></tr></table>		POSITION	SAMPLE	TEMP	T rise	CASE	DCW03A-05	39.7°C	14.7°C	P
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16	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 軌道型塑膠加紙盒包裝 2. MARKING : MODEL 3. MECHANICAL : SIX-SIDED SHIELD METAL CASE 4. DIMENSIONS : WXHxD=31.8X12.2X20.3mm, PIN :0.5○x3.8mm										
DATE		SAMPLE	TEST RESULT	TEST	APPROVAL							
1998.8.15		DCW03A-05	PASS	T.K.CHENG	MAX LIN							
1999.1.28		DCW03A-12 DCW03A-15	PASS	T.K.CHENG	MAX LIN							

PREVIOUS

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